

U.S. Patent Application Serial No. 10/576,193
Amendment filed December 22, 2008
Reply to OA dated August 28, 2008

AMENDMENTS TO THE CLAIMS:

Please cancel claims 4, 7, 13 and 16 without prejudice or disclaimer, and amend claims 1 and 10, as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A method of forming a luster coating film, comprising the steps of:

(1) applying an aqueous luster thermosetting base coating composition (A), the solids content of the base coating composition (A) being about 5 to about 15 wt. % to a substrate in two to five stages, in such a manner that the thickness of the base coating composition (A) applied in each of the second and subsequent stages becomes 0.3 to 5 μm when cured;

(2) applying a thermosetting clear coating composition (B) over the uncured or heat-cured coating layer of the base coating composition (A);

(3) applying an aqueous luster thermosetting base coating composition (C), the solids content of the base coating composition (C) being about 5 to about 15 wt. % to the uncured or heat-cured coating layer of the clear coating composition (B) in two to five stages;

(4) applying a thermosetting clear coating composition (D) over the uncured or heat-cured coating layer of the base coating composition (C); and

U.S. Patent Application Serial No. 10/576,193
Amendment filed December 22, 2008
Reply to OA dated August 28, 2008

(5) heating the four-layer coating comprising the base coating composition (A), clear coating composition (B), base coating composition (C) and clear coating composition (D) to obtain a cured four-layer coating film;

wherein, in step (1), the solids content of the aqueous luster thermosetting base coating composition (A) one minute after the application in each stage is at least 40 wt.%;

wherein, in step (1), after each coating stage, the applied composition is allowed to stand, or is preheated at about 50 about 80°C;

wherein, in step (3), the solids content of the aqueous luster thermosetting base coating composition (C) one minute after the application in each stage is at least 40 wt.%;

wherein, in step (3), after each coating stage, the applied composition is allowed to stand, or is preheated at about 50 to about 80°C.

Claim 2 (Original): The method according to claim 1, wherein the aqueous luster thermosetting base coating composition (A) comprises a water-soluble or water-dispersible, crosslinkable functional group-containing resin, a crosslinking agent and a flaky luster pigment.

Claim 3 (Original): The method according to claim 1, wherein, in step (1), the thickness of the aqueous luster thermosetting base coating composition (A) applied in the first stage is 0.3 to 9 μm when cured.

U.S. Patent Application Serial No. 10/576,193
Amendment filed December 22, 2008
Reply to OA dated August 28, 2008

Claim 4 (Canceled).

Claim 5 (Original): The method according to claim 1, wherein the aqueous luster thermosetting base coating composition (C) comprises a water-soluble or water-dispersible, crosslinkable functional group-containing resin, a crosslinking agent and a flaky luster pigment.

Claim 6 (Original): The method according to claim 1, wherein, in step (3), the thickness of the aqueous luster thermosetting base coating composition (C) applied in each stage is 0.3 to 5 μm when cured.

Claim 7 (Canceled).

Claim 8 (Original): The method according to claim 1, wherein the substrate is an automotive body or a part thereof.

Claim 9 (Original): An automotive body or a part thereof having a luster coating film formed by the method according to claim 8.

Claim 10 (Currently amended): A method of forming a luster coating film, comprising the steps of:

U.S. Patent Application Serial No. 10/576,193
Amendment filed December 22, 2008
Reply to OA dated August 28, 2008

(1) applying an aqueous luster thermosetting base coating composition (A), the solids content of the base coating composition (A) being about 5 to about 15 wt. % to a substrate in two to five stages, in such a manner that the thickness of the base coating composition (A) applied in each of the second and subsequent stages becomes 0.3 to 5 μm when cured;

(2) applying a thermosetting clear coating (B) over the uncured or heat-cured coating layer of the base coating composition (A);

(3) applying an aqueous luster thermosetting base coating composition (C), the solids content of the base coating composition (C) being about 5 to about 15 wt. % over the uncured or heat-cured coating layer of the clear coating composition (B) in two to five stages;

(4) applying a thermosetting clear coating composition (D) over the uncured or heat-cured coating layer of the base coating composition (C);

(5) applying a thermosetting clear coating composition (E) over the uncured or heat-cured coating layer of the clear coating composition (D); and

(6) heating the five-layer coating comprising the base coating composition (A), clear coating composition (B), base coating composition (C), clear coating composition (D) and clear coating composition (E) to obtain a cured five-layer coating film;

wherein, in step (1), the solids content of the aqueous luster thermosetting base coating composition (A) one minute after the application in each stage is at least 40 wt.%;

wherein, in step (1), after each coating stage, the applied composition is allowed to stand, or is preheated at about 50 about 80°C;

U.S. Patent Application Serial No. 10/576,193
Amendment filed December 22, 2008
Reply to OA dated August 28, 2008

wherein, in step (3), the solids content of the aqueous luster thermosetting base coating composition (C) one minute after the application in each stage is at least 40 wt.%;
wherein, in step (3), after each coating stage, the applied composition is allowed to stand, or
is preheated at about 50 to about 80°C.

Claim 11 (Original): The method according to claim 10, wherein the aqueous luster thermosetting base coating composition (A) comprises a water-soluble or water-dispersible, crosslinkable functional group-containing resin, a crosslinking agent and a flaky luster pigment.

Claim 12 (Original): The method according to claim 10, wherein, in step (1), the thickness of the aqueous luster thermosetting base coating composition (A) applied in the first stage is 0.3 to 9 μm when cured.

Claim 13 (Canceled).

Claim 14 (Original): The method according to claim 10, wherein the aqueous luster thermosetting base coating composition (C) comprises a water-soluble or water-dispersible, crosslinkable functional group-containing resin, a crosslinking agent and a flaky luster pigment.

U.S. Patent Application Serial No. 10/576,193
Amendment filed December 22, 2008
Reply to OA dated August 28, 2008

Claim 15 (Original): The method according to claim 10, wherein, in step (3), the thickness of the aqueous luster thermosetting base coating composition (C) applied in each stage is 0.3 to 5 μm when cured.

Claim 16 (Canceled).

Claim 17 (Original): The method according to claim 10, wherein the substrate is an automotive body or a part thereof.

Claim 18 (Original): An automotive body or a part thereof having a luster coating film formed by the method according to claim 17.